

What is claimed is

1. An illuminating device for a display comprising:
 - a display panel;
 - a light guide having a light reflection surface, a light discharge surface opposite to the light reflection surface, a front side surface, and a rear side surface, and disposed under the display panel so that the light discharge surface opposes to the display panel;
 - a light source provided to oppose to the front side surface of the light guide;
 - a plurality of triangular grooves formed in the light reflection surface,
 - each of the triangular grooves comprising a front side having a first angle of inclination and a rear side having a second angle of inclination which is smaller than the first angle; and
 - a diffusion and reflection plate disposed to oppose to the rear side surface of the light guide.
2. The device according to claim 1 further comprising a reflection plate disposed to oppose to the light reflection surface.
3. The device according to claim 1 wherein the second angle of inclination is about 45 degrees.
4. The device according to claim 1 wherein each of the grooves extends in a right angle direction with a central beam from the light source.
5. The device according to claim 1 wherein the grooves are formed same depth.

6. The device according to claim 4 wherein the grooves are arranged at a same distance.